Bio Water Chem

WATER TREATMENT AND SERVICES

Save Trees Save Water

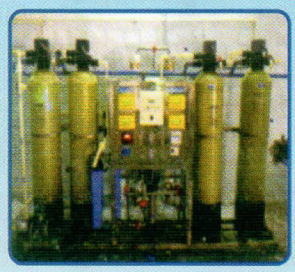
FRP Vessel

FRP Membranes Housing

Indion Resins

RO Antiscalant Chemical

IE-Hydramem Membranes



Manufacturers & Suppliers of:

- De- Mineralising Plant
- R. O. Plant & Drinking Water Project
- Ultra Pure Systems
- Water Softening Plant
- Carbon & Sand Filters
- Ion Exchange, R.O. Antisclants
- Ion Exchange Resin
- Micron Filters
- R.O. Membrane and Housings
- FRP Vessels
- Water Treatment Chemicals & Spares

Authorised

ION EXCHANGE Refreshing the Planet

INDION® RESINS

AQUANOMICS

Bio Water Chem

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THE COMPANY

We at the Bio Water System companies are a conglomerate of multifaceted companies engaged in Water Treatment services. The Bio Water Treatment Division of the Bio Water System of companies is the leader in this field. The company covers every aspect of water cycle Treatment for almost all types of industries.

We offer the most comprehensive range of Water Treatment services including turnkey projects.

MEMBRANE TECHNOLOGY

Bio Water Systems are designed to produce purified water by the Reverse Osmosis Process. An understanding of this process can be best gained by a reviewing of the process of osmosis.

Normal osmosis takes place when water passes from a less concentrated solution to a more concentrated solution through a semi-permeable membrane. A semi-permeable membrane is one, which will pass the water molecules but will not pass a great percentage of a solute (i.e., dissolved material). Most of this material is rejected.

REVERSE OSMOSIS

Reverse Osmosis uses a membrane that is semi-permeable, also known as hyper filtration, is the finest filtration known.

Reverse Osmosis can be used to purify water / waste water, while rejecting other ions and contaminants. The most common use for reverse osmosis is in water purification. It is used to produce water that meets the most demanding specifications.

OUR PRODUCTS

- Industrial DM & Portable DM plant
- Industrial RO & Packaged Drinking Water Plant
- Ultra Pure System
- Water Softening Plant
- Carbon & Sand Filter
- Water Treatment Components.

RESIN TECHNOLOGY

Ion Exchange is the process of purifying a liquid solution by passing it through a bed of ion exchange resin. An exchange of ions between the liquid and the solid ion exchange resin takes place and is controlled by the functional group attached to the resin matrix. Cations resins have a negative fixed charge and exchange the positively charged ions; anion resins have a positive fixed charge and exchange the negatively charged ions.

DE-MINERALISING WATER PLANT

This typical process involves the removal of Cations (e.g. calcium, magnesium, sodium, potassium, Ion and other heavy metals) by a bed Strong Acid Cation (SAC) ion exchange resin followed by a second bed of Strong Base Anion (SBA) resin for the removal of all anions(e.g. Bicarbonate Alkalinity, Chloride, Sulfate, Nitrate, Silica and CO2 second bed of Weak Base Anion (WBA) resin for the removal of Strong Acid Anions(e.g. Chloride, Sulfate, Nitrate).

The Demineralisation process is also known as Deionization. It is an economical option when feed water TDS is low and low conductivity product water is required.

SOFTENING

BIO Water typical water softener uses a technique known as "ion exchange". That is, it removes calcium and magnesium ions by replacing them with sodium ions. Although this does technically make water softer, ion exchange water softening removes calcium and magnesium to produce softened water. Unlike hard water, softened water will not leave any residue or scale on things it comes in contact with. Bio water offers water softening systems for the home, restaurants and industrial applications.